

^{canis}
Melospiza melodia montana (Henshaw).

Mountain Song Sparrow.

A rare summer resident; breeds at
M. H. S.

Saw a Song Sparrow in the marsh below
M. H. S., October 28 and 29, 1902.

July 28, 1889. — "Several along streams" between
the Upper and Lower and Upper Geyser basins,
and also at the Upper Geyser Basin.

Spizella monticola ochracea Brewst.

Western Tree Sparrow

Mt. Washburn and Antelope Creek Sept. 24,
1902.

Eagle Creek, Park Co., Montana Oct. 13, 1902.
These were the first noted since Sept. 24.

The last ^(several) were seen the day Ella and I
walked to head of post ditch & observed the
Ouzel's habits (~~for date see first record~~ ^{October 16, 1902}).

Louis found them in abundance at
Bozeman, Montana, October to Dec., 1902.

Pedioreetes phasianellus

Sharp-tailed Grouse.

Several times I saw Grouse in the vicinity of M. H. S., which I suspected of belonging to this species.

"Doc." Hall found Sage Hens (Centrocercus = cus urophasianus (Bonap.)) abundant at the junction of the two forks of Stinking River, where a number were shot.

Possibly Sharp-tailed Grouse.
Aug 12, 1902. - Saw a
♀ Grouse with 2 half-grown
young beside M. H. S.
Blue Grouse?

They were beside the road;
tame; did not fly at all.

Zonotrichia leucophrys
White-crowned Sparrow.

A common summer resident in the Park. Breeds at M. H. S.

"Several" were noted at Meldrum Gulch, M. H. S., Sept. 27, 1902.

"Several" were noted Oct. 3, 1902, on the Yellowstone River, opposite the mouth of Gardiner River.

"May to Sept. 28, 1902. Noted at M. H. S."

July 27, 1889. — Noted from M. H. S. to L. G. Basin.

Specimens.

12634. ♀ ad. Nov. 29, 1902. Yellowstone River
at Gardiner City, Park Co., Montana.

193; 287; 88; 55; cul., 14; nost., 12.5; Tarsus,
25.5; middle toe with claw, 27 mm.

Color fishy.

July 27, 1889. ^{Cascade Creek & several} ~~various~~ streams from M. H. S.
to the L. L. Basin.

Late in Sept., 1902, Louis saw them on Cascade
Creek.

In Nov. & Dec., they assemble in
considerable numbers on the Yellowstone
River, where they are seen "dipping" and
drifting from stone to stone.

Cinclus mexicanus Swainson.

Water Ouzel: Dipper.

"Several along the Gardiner River, Decem-
ber 13, 1902.

Many on Gardiner River, Dec. 16, 1902.

Gardiner & Yellowstone rivers, Wyo. & Mont., Dec. 16, 1902.

Saw one fly into Rustic Falls,
1902, and suppose it may have nested there.

One was seen on Gardiner River the
day I got the first red Allium at
7-mile post.

Post ditch to corral.

Assemble in the Yellowstone and
Gardiner Rivers as the streams in the
higher portions of the Park are closed by ice.

Oct. 5, 1902. - One at Rustic Falls; flew into
the falls.

Resident; breeds. Gardiner R.; Glen. Creek;
Middle Gardiner at 7 m. - post (see plant list for
date). One at 2d bridge, Gardiner R., Oct.
9 and 10, 1902.

A Water Ouzel was seen at the second bridge,
October 10, 1902.

Oct. 16, 1902. - One on post ditch flew before
us, as it was flushed again and again, for a mile,
alighting indifferently in the water or upon the bank.
It often waded and swam in the ditch, feeding in
shallow water with head all under. Its tilting is
really a rapid squatting motion. In flight it
makes a very distinct whirring sound. At length,
this bird hid under a bridge, and allowed us to
pass it by. Returning, we found it near the
bridge; but, instead of flying before us, it made
several to fly back past us. (over)

Oporornis tolmiei (Townsend).

Macgillivray Warbler.

One was taken at the Staggian
Cave, May 16, 1902. Identification
verified by Chas. W. Richmond, as
specimen was somewhat
fragmentary. Others seen in August, 1902.
E. Allen.

Vireo gilvus (Vieillot).
Warbling Vireo.

A Vireo sang throughout the summer;
but I never saw it closely enough to
determine its species. (It was doubtless
the Warbling Vireo, which I thought it
at the time.)

Aug. 1, 1902. — Two dead at the "Stygian Cave."

Parus gambeli Ridgway.

Mountain Chickadee.

Abundant to the summit of Bensen Peak,
Oct. 5, 1902.

Flock seen Oct 3, 1902, on Eagles., Park Co., Montana.

Resident. Breeds. Abundant from M. H. S. upwards.

Oct. 24, 1902. - Noted at M. H. S.

" 30 " do

Nov. 11 " do

Aug. 1, 1902. - One dead at the Stygian Caves.

Nov. 10, 1902. - "Abundant" at M. H. S.

Nov. 16, 1902. - One ^{recently} dead at Stygian Caves.

~~Nov.~~ Oct. 15, 1902. - Four dead at Stygian Caves.

Oct. 17, 1902. - Abundant at M. H. S.

Oct. 20, 1902. - Noted at M. H. S.

July 26 - 31, 1889. - Abundant at M. H. S.

July 27, 1889. - "Abundant" from M. H. S. to L. Geysers Basin.

July 28, 1889. - Seen in family parties, between
the Lower and Upper geysers basins. One female
had her dress worn nearly off; she ~~approached~~
flew within a few feet in answer to my chirp.

Specimens.

12616. ♀ ad. Oct. 15, 1902. Stygian Caves, U. H. S.

142; 213; 70; 68; 10; 18; 14 mm.

12617. ♂ ad. Ditto.

140; 215; 70; 65; 8.5; 20; 14 mm.

12632. - ad. Suffocated at a Stygian cave, U. H. S.,

Nov. 16, 1902.

140; 216; 70; 65; cul., 10; nostril, 8;

tarsus, 19.5; middle toe with claw, 14.

Petrochelidon lunifrons (Say).

Cliff Swallow.

Breeding abundantly under eaves of ^{buildings} ~~houses~~ and on cliffs (including Liberty Cap), at M. H. S., June, 1902.

Breeds abundantly on buildings at M. H. S., and on cliffs of the Gardiner River and its tributaries

July 26-31, 1889. — Noted at M. H. S.

Tachycineta lepida Mearns.

Violet-Green Swallow.

Bred abundantly during June, 1902, at Mammoth Hot Springs. One pair nested in a hole in a living ^{limbs} pine tree (Pinus flexilis), beside the Yellowstone River, at Cinnabar, Montana. The birds were seen passing in and out, on June 20, 1902.

Breeds abundantly at M. H. S., and on branches of the Gardiner R. One nest in lumber pine tree on bank of Yellowstone River at Cinnabar. Commonly nesting in holes in cliffs. In some of the Montana towns it occupies bird-boxes set up for its use.

July 26-31, 1889. — Noted at M. H. S.

Pandion haliaetus carolinensis (Gmelin).

Fish Hawk.

The first arrived the day Mr. Mellin (President Northern Pacific Railroad) came with party to see large game.

Saw one take a large trout at Capt. Lockridge's camp near Mountain Hotel. See plant catalog for date
Nests occupied on Gardiner R. 2 m. from Gardiner City, Mont.

" Middle Gardiner at Papay Falls.
" Grand Canyon at Pt. Lookout.
" Grand Canyon at Falls + below Inspiration Pt.

Seen at Lake Hotel 1902.

Many seen on Yellowstone Lake and Canyon
September 17 to 19, 1902.

Nests on rock spires of Gardiner, Middle
Gardiner, and Yellowstone rivers.

July 26-31, 1889. - Young in a nest on a
rock chimney in the Canyon of Gardiner River.

Circus hudsonius (Linn.).

Marsh Hawk.

Several were seen on Swan Lake Flat and
Elk Flat 1902.

Seen from April to September 25, 1902.
Not known to breed, but probably does so.

July 26-31, 1889. — Noted at M. H. S.

July 27, 1889. — "Abundant" from M. H. S. to L. G. B.

Melospiza lincolni (Audubon).

Lincoln Sparrow.

M. H. S. in May, 1902.

One Oct. 18, 1902, on east side of Yellowstone River, near Gardiner City, Montana. It flew along a weedy irrigation ditch, whence it was flushed many times from among the alfalfa and bigelovii.

July 31, 1889. - Noted between M. H. S. & Cinnabar.

Zenaidura macroura (Linn.).

Mourning Dove.

Arrived in May and common until the end of August. I did not note it in September, but think I saw some early in the month.

July 26-31, 1889. — Noted at M. H. S.

July 31, 1889. — "Several" were seen between M. H. S. and Pinnabar.

July 27, 1889. — Found from M. H. S. to L. G. Basin.

Tyrannus tyrannus (Linn.).

Kingbird.

Not seen in the Park, but ~~noted as~~
seen along the Yellowstone River near
Livingstone, Montana, July 31, 1889.

Melanerpes torquatus (Wils.).

Lewis Woodpecker.

Not seen in the Park. One flock
was noted, July 31, 1889, near
Livingstone, Montana.

Sitta carolinensis nelsoni Mearns.

Rocky Mountain Nuthatch.

One or two seen at Mammoth Hot Springs
in April, 1902.

One or two seen on Bunsen Peak, Oct. 5.

Breeds commonly.

Noted "one" in Mildrum Gulch, M.H.S., Sept. 27, 1902.

Resident April to October; breeds. Noted Oct.
11, 1902 at M.H.S. Found throughout the Park.

Noted at M.H.S.; Nov. 11,

Common at M.H.S., Nov. 9.

" " " 10

Abundant at M.H.S. Oct. 17, 1902.

July 26-31, 1889. — Noted at M.H.S.

July 27, 28, 1889. — Noted at the L. Geyser Basin

Specimens.

12618. ♂ ad. Oct 15, 1902. Stygian Caves, W. H. S., Wyo.
123; 21.2; 71; 40; 12; 15; 15.

12619. ♀ ad. Ditto.
119; 208; 69; 39; 12.8; 16; 15.5.

12620. ♂ ad. Ditto.
126; 216; 71; 40; 13; 16.5; 16.

Sitta canadensis Linna.

Red-breasted Nuthatch.

First noted, in Meldrum Gulch, M. H. S.,
Sept. 27, 1902. Abundant after that.

Noted at M. H. S.: Oct. 30, Nov. 11,

" " common Nov. 9.

" " " 10.

Nov. 16, 1902. - One recently dead found at the
Stygian Caves. Unfit for preservation.

Oct. 15, 1902. - Four dead at Stygian caves
Three were fresh enough to be skinned as specimens.

Oct. 17, 1902. - Abundant at M. H. S.

Oct. 20, 1902. - Noted at M. H. S.

Pipilo maculatus arcticus (Swainson).

Arctic Towhee.

One was seen by Mrs. John Pitcher, May 21, 1902,
at M.H.S.

Rhynchophanes mecowii (Lawr.).

Mc Cow Longspur.

Flocks at M. H. S., in April and May,
1902.

Calcarius

Longspur.

A Longspur was abundant in flocks on the parade-ground at Fort Yellowstone from April 19 to 24, 1902. It associated with Horned Larks and Cassin Purple Finches.

Carpodacus cassinii Baird.

Cassin Purple Finch.

In large flocks; singing April 24, 1902, at M.H.S.
Breeds commonly from 6000 feet upward.
Singing in Meldrum Gulch, Sept. 27, 1902.

Immense flocks in spring (April 19 to May, 1902). Breeds. Summer resident. Singing Oct. 11 and 13, 1902.

Oct. 24, 1902. - Singing at M.H.S.

"	30	"	<u> </u>	"	"
Nov.	11	"		"	"
"	9	"	"Singing"	"	"Common"

Oct. 17. " abundant at M.H.S.

Oct. 20, " do Singing

Acanthis linaria (Linn.).

Redpoll.

Nov. 11, 1902. - Immense flocks at M.H.S.

Nov. 10, 1902. - Flock of several hundred at M.H.S.
Louis got specimens at Bozeman, Mont.

Scolecophagus cyanocephalus (Wagl.).

Brewer Blackbird.

Abundant summer resident. May to Sept,
1902. Two on Yellowstone River, near Fridley,
Montana, Oct. 7, 1902.

Breeds. Immense flocks on Yellowstone
Lake and River, Sept. 17 to 19, 1902.

July 27, 1889. - "Abundant" from M. H. S. to L. G. Basin.

July 28, 1889. - "Very abundant at the soldiers'
camp on Fire Hole River, and elsewhere.

Oreospiza chlorura (Aud.).

Green-tailed Towhee.

Abundant in late August and September.

Oct. 15, 1902. - One, ^{for} some time dead, at Stygar
Carr.

Gruis mexicana (Müll.).

Sandhill Crane.

Three ~~large~~ Cranes, either this species or Gruis canadensis were seen near Black-tail Deer Creek on my first ~~or second~~ visit there; ~~if the latter the date was May 25, 1902.~~

Cranes are of common occurrence in the Park, and are said to breed there. At Yellowstone Lake, Cranes are said to be numerous.

Three were seen on the Yellowstone River,
1 August 1, 1889.

Dendragapus obscurus richardsonii (Douglas).

Richardson Grouse.

Louis di Zerega Means recovered a quite young one from a Sharp-shinned Hawk, on Black-tail Deer Creek, July 13, 1902 (No. 12607).

A nest containing eggs was found on Black-tail Deer Creek May 25, 1902.

A female was observed nesting in an anthill, the same day, at East Gardiner Falls.

One spent the day in hospital yard ^{M. H. S.}
Three young seen near 1-mile post above
Louis plugged one several times with slingshot.
Common in Yancy road near E. G. Halls.
Abundant on base Mt. Washburn.

Aug. 12, 1902. - Saw a ♀ Grouse with 2 half-grown young, beside M. H. S. They were beside the road; tame; did not fly at all. (This brood often seen between 1 & 2 mile-posts in Aug. (+ Sept.!!))

Continental Divide below ? Lake.

Oct. 5, 1902. - Two pairs on Bunsen Peak. One over ^{while one tree} alighted in a ~~Douglas spruce~~ where Louis hit it four times with stones ^{fired from a bean-shooter} before it flew.

Quite common in the Park; also at Crevasse Mountain, Park Co., Montana. Localities: Mammoth Hot Springs; Snow Pass; East Gardiner; Black-tail Deer Creek; Mount Washburn; Bunsen Peak, nearly to summit (9 feet).

Oct. 5, 1902. - A Dusky Grouse seen near summit of Bunsen Peak; others in thick timber lower down. When flushed ~~all~~ from the ground, all alighted in trees. Louis found them ^{in abundance} on Sulphur Creek, in Sept., 18902

Specimens.

12607. juv. Taken from a Sharp-shinned
Hawk at Black-tail Deer Creek, July 13, 1902.

Arthya pensilvanicus (Lath.).

American Pipit.

Several at Lake Hotel

1902.

" " Lone Star Canyon, Fire Hole River,

Flock seen at M. H. S., Sept. 27, 1902.

M. H. S., Oct. 1, 1902.

Abundant in autumn at M. H. S., etc.

Noted at Bozeman, Montana, Oct. 8, 1902.

Lanius

April 24

One seen near M. H. S., ~~spring~~ 1902. ~~It~~
I surprised a ~~Shrike~~ in
~~sat on a~~ thicket of wild rosebushes, and
it disappeared so suddenly that I was
unable to distinguish the species. I
never saw another in the Park.

Geothlypis trichas occidentalis Brewst.

Western Yellow-Throat.

May to Sept., at M. H. S. Breeds.

Sturnella neglecta

Western Meadow-lark.

One at M. H. S., Sept. 27, 1902.

Resident from April to October 13, 1902.
Mount Washburn, Sept. 24, 1902.; two near
Gardiner, Montana, Oct. 13, 1902; common
summer at M. H. S.

Flocks seen 5 m. E. of Bozeman, Montana, on RR;
Oct. 9, 1902.

Noted along the Yellowstone River, between
Cinnabar and Livingston, Montana, Oct. 7, 1902.

Noted at Bozeman, Montana, Oct. 8, 1902.

Oct. 16, 1902. - ~~One~~ Singing; all birds very scarce.

Oct. 18, 1902. - One shot near mouth of
Eagle Creek, Park Co., Montana.

Specimens.

12626. ♂ ad. Oct. 18, 1902. "Cheeks yellow."

225; 418; 130; 85; 31; 37; 32. Very fat.
Near mouth of Eagle Creek, Park Co., Montana.

Molothrus ater (Bodd.).

Cowbird.

Not common; seen about the corral at
M.H.S., during the summer, but not
common.

Chordeiles virginianus heuryi (Cass.).

Western Nighthawk.

Not uncommon at M.H.S. in summer.

July 27, 1889. — Noted as "common" from
Mammoth Hot Springs to the Lower Geyser Basin.

Sphyrapicus varius nuchalis Baird.

Red-naped Sapsucker.

A few seen during September, 1902.

One on the East Garden, the day Capt.

~~Chittenden~~ and I started for Mt. Washburn.

Sept. 23, 1902. Marks (punctures) on many cedars

(Juniperus scopulorum Sargent).

?? Trochilus alexandri Bourc & Muls.

Black-chinned Hummingbird.

Rare summer resident. Pair at Judge
Meldrums. Species not determined. I did not
see them.

Neotoma columbiana (Wilson).
Clarke Nutcracker.

Very bold: April 24, 1902, one that was engaged in picking marrow from a long soup-bone allowed me to approach until I was standing almost over it. M.H.S.
 Abundant Dec. 13, 1902. Ft. Y. to Gardiner.

" " 16 " M.H.S.

" " at Lake Hotel & Canyon.
 Common to summit of Benson Peak, Oct. 5, 1902.
 Visit stables, corral, etc.

Abundant; resident; breeds. Localities: M.
 H.S.; Yellowstone Lake; Grand Canyon; Yancey;
 Mt. Washburn; Tower Falls, ~~Washburn~~ Norris, upper, and
 Lower geyser basins, etc.

One dead at Stygian Caves, Oct. 11, 1902.

One near Gardiner, Y.U.P., Oct. 13, 1902.

Several seen 5 miles east of Bozeman,
 Montana, on R. R., Oct. 9, 1902.

Oct. 24, 1902. - noted at M.H.S.

" 30 " do
 Nov. 11 " do
 " 9 " "common" do

Oct. 11, 1902. - One dead at a "Stygian" cave.

Oct. 18, 1902. - Several seen between the post
 and Gardiner City.

Oct. 17, 1902. - Several at M.H.S. One digging food
 from the ground. Very tame.

Oct. 20, 1902. - Many seen at M.H.S.

July 26-31, 1889. - In spruces & timber pines around
 the M.H.S. Hotel.

July 30, 1889. - "Abundant at the Canyon."

July 28, 1889. - "Common at the U. Geyser Basin."

Cyanocephalus cyanocephalus (Wied).

Pinon Jay.

Flock at Horr, Park Co., Montana (near the
base of Electric Peak), in the ^{white pine and} red ponderosa zone.
(See plant list for det.)

Troglodytes aëdon parkmanii (Aud.).

Parkman Wren.

July 27, 1889. - Common from Mammoth
Hot Springs to the Lower Geysers Basin.

Merula migratoria propinqua Ridgway.
Western Robin.

July 10, 1902. - First young observed flying.

Last seen the day Holt and I shot the first Coyote specimen.

A few were seen near the summit of Benson Peak, at about 9000 feet, Oct. 5, 1902.

Abundant in Meldrum Gulch, M. H. S., Sept. 27, 1902.

Sept. 28, 1902. - First heavy snow of the season fell at M. H. S. Robins thronged the "cedars" (Juniperus scopulorum Sargent).

Some were seen 5 miles east of Bozeman, Montana, Oct. 9, 1902.

Early spring to , 1902. Breeds abundantly at M. H. S. + upwards.

Flocks, feeding on red juniper, near Gardiner City, Montana, Oct. 13, 1902.

1 Oct. 1, 1902 at M. H. S.

2 dead at Stygian caves, Oct. 11, were full of juniper berries.

Robins were "abundant" at M. H. S., Oct. 24, 1902.

Noted at M. H. S.: Oct. 30

"Robins nearly all disappeared from the Park about Nov. 1, 1902."

Nov. 10, 1902. - No Robins seen lately.

Oct. 11, 1902. - "Abundant" at M. H. S. 3 dead at Stygian Caves.

Oct. 16, 1902. - In flocks, feeding upon gooseberry and red juniper. Abundant at M. H. S.

Oct. 17, 1902. - Abundant at M. H. S.

Oct. 23, 1902. - Several on the Yellowstone River.

(over)

Specimens.

12610. Skull of adult; found at Stygian Caves, Oct. 11, 1902; mandible gone.
12611. ♀ ad. Sept. 26, 1902. Found dead at Stygian Caves. 266; 432; 136; 117; 21; 35; 28 mm.
12613. ♀ ad. Oct. 3, 1902. Near mouth of Eagle Creek, Park Co., Montana. 267; 450; 148; 118; 20 (cul.); 14 (nostr.); 33 (tars.); 28 (m.t. + cl.).
12614. ♂ ad. Near mouth of Eagle Creek, Park Co., Mont., Oct. 13, 1902. 270; 430; 142; 116; cul. from true base, 20; nostr., 13; tarsus, 33; m.t. + cl., 29.
12615. ♀ ad. Ditto. 252; 412; 134; 103; 19; 12; 34; 27.

July 26-31, 1889. — Noted at M. H. S.

July 27, 1889. — "Common" from M. H. S. to L. G. Basin

July 28, 1889. — One or two seen at the "Mountain Canyon" and between there and the Up. Gorge Basin

Oroscoptes montanus (Towns.).

Sage Thrasher.

Rare on the ^{all} ~~Lower~~ ^{Yellowstone} ~~Gardiner~~ and Yellowstone
rivers. ^{at} ~~near~~ ^{Hotel} ~~near~~ Gardiner City, Oct. 3, 1902.
"One in sagebrush."

Certhia americana montana (Redgway).

Rocky Mountain Creeper.

Only occasionally seen during summer, but quite numerous in autumn. Not ascertained to breed.

Seen at M.H.S., Nov. 8, 1902.

Nov. 10, 1902. — "Now occasionally seen" at M.H.S.

Nov. 17, 1902. — Female specimen (No. 12,625) taken from a "Stygian" cave.

Specimens.

12625. ♀ ad. Oct. 17, 1902. Stygian Caves, M.H.S.
143; 197; 66; 70; cul. from true base, 15;
nostr., 11; tarsus, 14; m.t. + cl. 17 mm.

Hylocichla guttata auduboni (Baird).

Audubon Hermit Thrush.

One seen near the summit of Bensen Peak,
Oct. 5, 1902.

Dryobates villosus monticola Anthony.

Rocky Mountain Hairy Woodpecker.

One on the summit of Bunsen Peak, Oct. 5, 1902.
Not uncommon about M. H. S. in Nov. & Dec., 1902.
Mammoth Hot Springs, Sept. 26, 1902.

One ♂ at M. H. S., Nov. 10, 1902.
Specimen shot near Cincinnati, Oct. 28, 1902.

Specimens.

12627. Ad. Oct. 28, 1902. Foothills of Electric
Peak, near Chinabur, Park Co., Montana.
256; 427; 135; 95; 32; 25; 23.

Colaptes cafer collaris (Vigors).

Red-shafted Flicker:

A rather common summer resident.

At Lake Hotel, 1902.

Noted one in Mildrum Gulch, M. H. S., Sept. 27, 1902.

Breeds. Mount Washburn, Sept. 24, 1902.

July 26-31, 1889. - "Abundant" at M. H. S.

July 27, 1889. - "Abundant" from M. H. S. & L. G. Basin

Contopus richardsonii (Swains.).

Western Wood Pewee.

Noted at Mammoth Hot Springs, in
September, 1902.

July 30, 1889. — Observed "along the creek
at Norris."

Perisoreus canadensis capitalis Ridgway.

Rocky Mountain Jay.

at Lake Hotel

1902.

" Lone Star Geyser

"

Abundant; resident; breeds from Gardiner River at 7-mile post to Yellowstone Lake and Mt. Washburn. M.H.S., especially in winter.

Noted at M. H. S.: Oct. 30, Nov. 11,

"Common" at M. H. S., Nov. 9, 1902.

July 30, 1889. - "Abundant about the hotel at the Canyon. The Red Squirrels (Sciurus Audsonicus baileyi) are fed at the hotel. These birds, known as Camp Robbers, watch where the squirrels deposit their food, and rob them.

July 27, 28, 1889. - Noted at the Lower Geyser Basin.

July 29, 1889. - Noted at Front Creek, near the summit of the divide at Mary Lake.

Sept. , 1902. - Very tame about the cabin at Norris. Fed by the men.

1902. - Came familiarly about the yard at Hulsey's cabin on Crevasse Mt. An old buffalo skull nailed on a post was their favorite rostrum.

Between Kelley's camp and the Canyon Hotel the road was lined with them; and they scolded at passers by.

Pica pica hudsonica (Sab.).

Black-billed Magpie.

at 2-mile bridge,

A pair bathing in the Gardiner River.

Dec. 13, 1902

Seen at garbage piles near Lake and Canyon hotels.

One, Snow Pass, Oct. 5, 1902.

One tame at Post Office, M. H. S.

Sept. 29, 1902. — Three in the road, near trough, where they had perhaps been drinking.

A tame one at M. H. S. Post Office yesterday "began talking like a parrot." A bird of the year.

Sept. 28, 1902. — First heavy snow at M. H. S. One seen.

A permanent resident; breeds from the Gardiner River at 6000 feet up to Mt. Washburn, Grand Canyon of the Yellowstone, and Yellowstone Lake.

Oct. 12, 1902, M. H. S.

Oct. 9, 1902, two were seen on R. R., 2 miles east of Bozeman, Montana, at which town they are common. They soon saw them perch upon the backs of cattle there.

Noted at M. H. S.; Oct. 30, Nov. 11

"Common" at M. H. S., Nov. 9, 1902.

Oct. 18, 1902. — Two seen between the Post & Gardiner.

Oct. 17, 1902. — One at M. H. S. Sat on log pile and

talked fluently at us.

Oct. 20, 1902. — Many seen at M. H. S.

Louis saw bands of 20-30 Magpies chasing Owls at Bozeman, Montana, in November, 1902. Magpies were very common there. Quite suspicious & shy.

Specimens.

12628. ♂ ad. Poisoned by strychnine on a Coyote bait, at M. H. S., Nov. 12, 1902. Iris apparently bluish gray. Bill, feet, and claws, glossy black. There is a white band across black feathers of throat, which are white at base.

505; 650; 218; 280; cul., 31; height of bill, 15; width, 13; tarsus, 46; m. t. with claw, 36.

12629. ♀ ad. Ditto, Nov. 14, 1902.

497; 614; 200; 280; 32; 13; 13; 45; 35.

12630. ♀ ad. Ditto, Nov. 15, 1902.

470; 615; 205; 260; 33; 14; 15; Tarsus, 46; middle toe with claw, 36.

12631. ♀ ad. Ditto, Nov. 15, 1902.

513; 637; 216; 308; 33; 14; 15; 47; 34.

Cyanocitta stelleri annectens (Baird).

Black-headed Jay.

A common resident throughout the Park.
Often seen picking up food in the roads.

Seen at Continental Divide

" " Lake + Canyon hotels

Burns Peak, Oct. 5, 1902.

Flock in Meldrum Gulch, Sept. 27, 1902.

Mammoth Hot Springs to Yellowstone Lake

Aug. September, 1902. Resident. Breeds.

One in road at post hospital (6200 ft.) Oct. 12, 1902.

One chased a red squirrel, Oct. 11, 1902.

Noted at M.H.S.: Oct. 30, Nov. 11,

"Common" at M.H.S., Nov. 9, 1902.

Oct. 12, 1902. - One in the road at Hospital, Oct. 12, 1902.

Oct. 17, 1902. - Several at M.H.S.

Gonotrichia albicollis

Otocoris alpestris arenicola Henshaw.
 " " leucolaema (Leaves).
Horned Lark.

Louis di Zerega Uearna shot and skinned a male at Bozeman, Montana, December 12, 1902.
 [The skin is at Ft. Snelling - Jan. 26, 1902]

Flocks seen between Gardner & Conrader, Dec. 16, 1902.

Bred at Lockridge camp near Mountain Hotel. Several noted at M.H.S., Sept. 27, 1902.

Several seen, near Gardner City, Montana, Sept. 29, 1902.

Resident from April to December, 1902.

Breeds. Not abundant in summer.

Flocks a few miles east of Bozeman, Montana, Oct. 9, 1902.

Oct. 7, 1902. - Flocks between Conrader and Livingston, Montana.

Oct. 8, 1902. - noted at Bozeman, Montana.

Prof. O. M. Sillouy found arenicola to be the breeding form in Montana, but thinks that leucolaema is probably the prevailing winter form in Montana. A specimen taken at Bozeman, Montana, by -- is ____?.

Bonasa umbellus umbelloides (Dougl.)

Gray Ruffed Grouse.

"Several" noted in Meldrum Gulch, M. H. S., Sept. 27, 1902.
My wife and I saw it at Upper Geysers Basin,
in August, 1889.

Common in the Park, in 1902. Seen at
M. H. S.; East Gardiner; Mount Washburn;
Antelope Creek; Benson Peak; near 6-mile
post and Swan Lake Flat; Gardiner River, etc.
Numerous in Meldrum Gulch, M. H. S.

July 28, 1889. - One near the "Butterfly Pool",
at the Upper Geysers Basin.

Dendroica auduboni (Townsend).

Audubon Warbler.

Gardiner River, Wyoming, Sept. 29, 1902.
(Possibly D. coronata).

May to Sept. 29, 1902.

Oct. 1 and 10, 1902, at M. H. S.

Perhaps some were D. coronata.

July 26-31, 1889. - "Common" at M. H. S.

July 28, 1889. - Seen at the Fountain Geysers.

Albiorchilus hennialis pacificus (Baird).

Western Winter Wren.

One at Larry's camp, Upper Geyser Basin,
Sept. 17, 1902.

Salpinx obsoletus (Say).

Rock Wren.

A common summer resident; breeds.

Sept. 28, 1902. — Fresh heavy fall of snow at M.H.

1. One Salpinx beside the board walk.

May to Sept. 28, 1902, at M.H.S.

Gardiner, Park Co., Montana in summer.

Yellowstone River at mouth of Eagle Creek.

Gardiner R. & its branches.

July 27, 1889. — Two at Obsidian Cliff.

Specimens.

12,612. ♀ (ad.?). Eagle Creek, near its junction with
the Yellowstone River, Park Co., Montana, Oct. 3,
1902. 155; 235; 75; 59; 17 (cul.); 13 (nostr.);
22 (tars.); 16.5 (mid. t. + cl.).

Cistothorus palustris _____

Bred at M. H. S. in 1902.

Noted at M. H. S., Oct. 30, 1902.

Piranga ludoviciana (Wilson).

Louisiana Tanager; Western Tanager.

First seen June 1, 1902, when several males were singing about U.H.S.

A common summer resident; breeds; many were killed by carbon dioxide gas in a cave at U.H.S., in 1902 - both young and old.

Aug. 1, 1902. - Found old female and young of the season dead at the "Stygian Cave."

Oct. 11, 1902. - One some time dead in a "Stygian" cave.

July 28, 1889. - One male seen near Hell's Half Acre.

Sialia arctica Swainson.

Mountain Bluebird.

Young were out in numbers (M. H. S.) during the first week in July, 1902.

Male parent seen feeding young June 23, 1902.

Occupied the shelter used for our meteorological instruments, where ^{two} several families of young were reared.

One pair bred in a Douglas spruce. Another occupied the nest of a Cliff Swallow attached to the eaves of a building.

Abundant in Meldrum Gulch, M. H. S., Sept. 27, 1902.

Abundant at M. H. S. & Gardiner River, Montana, Oct. 3, 1902.

Resident from April 17 to October, 1902. Breeds abundantly from M. H. S. upwards. Abundant Oct. 11, 1902.

Nov. 10, 1902. - No Bluebirds seen lately.

Noted at Bozeman, Montana, Oct. 8, 1902.

Noted as "abundant" at M. H. S., Oct. 11, 1902.

Oct. 16, 1902. - Walked to head of post ditch. Bluebirds seem to have all departed.

Oct. 23, 1902. - A small flock, among cedars, at Scott's ranch, near Gardiner City.

July 27, 1889. - "Abundant in burnt districts," from M. H. S. to the Lower Geyser Basin.

Myadestes townsendii (Audubon).

Townsend Solitaire.

I doubtless a permanent resident, as I found them ^{throughout my stay} from April to December.

"Driving to Gardiner, and returning, we saw many Townsend Solitaires, Dec. 13, 1902." E.A.M.

Seen at Ft. Yellowstone and on Gardiner R., towards Gardiner City Dec. 16, 1902.

Noted at M.H.S., Oct. 5, 1902.

A number seen on the Gardiner River, Montana, Oct. 3, 1902.

Pair Sept. 29, 1902. Several Oct. 1.

Many were killed by gas in Stygian caves, where a nest was completed in June, 1902; but both parents were destroyed by entering the gas.

Singing; common, Oct. 11, 1902, at M.H.S.

Oct. 24, 1902. - Common. Singing.

Noted Oct. 30, 1902, at M.H.S.

" Nov. 11 " " " Singing."

"Common" " 9, " " " Singing."

" 10, " " " "

Oct. 11, 1902. - Was whistling its peculiar note and was quite common. One dead at a "Stygian" cave

Oct. 15, 1902. - Three dead at Stygian caves.

Oct. 17, 1902. - Common at M.H.S.

Oct. 20, 1902. - Singing + whistling; saw many.

Oct. 23, 1902. - One on Yellowstone below Gardiner.

1902. - One feathered a large flock of Bohemian Waxwings that were trying to feed on juniper berries on the M.H.S. mineral "formation". (See manual notes for date)

SPECIMENS.

203, Louis di Zerega Means Coll., Ad. Nov. 29,
1902. Near Gardiner City, Park Co., Montana.
224; 355; 115; 108; culmen, 11.3; nostril, 7.4;
tarsus, 22.5; mid. toe with claw, 22 mm.

12633. Ad. Nov. 29, 1902. Eagle Creek, Park
Co., Montana.

225; 352; 118; 106; culmen, 12; nostril, 7.4;
tarsus, 20; mid. toe with claw, 22.

Ampelis garrulus Linn.

Bohemian Waxwing.

Dec. 13, 1902. — Driving from Hot Yellowstone to Gardiner (5 miles), and returning, we saw thousands of Bohemian Waxwings. (Miss Avery Smith remarked that one of the flocks, in which the birds ranged themselves along the bare limbs of a white pine (Pinus flexilis), looked as if they were attending church.)
Gardiner R., Wyoming and Montana, Dec. 16, 1902.
Wounded bird from M. H. S. kept caged at Snelling.

A large flock, the first seen, flew up the Gardiner Canyon, near 3 m. post, Oct. 25, 1902.

On the Gardiner River, one mile from Gardiner City, Montana, Nov. 6, 1902, hundreds were seen in limber pines from which they descended to junipers to feed on the berries. This was my first intimate acquaintance with Bohemian Waxwings.

Nov. 7, 1902. — Hundreds drinking about the hydrants at M. H. S.

Nov. 9, 1902. — Saw two large flocks of Bohemian Waxwings at M. H. S. They utter a low trill or chatter. When taking flight the note is much like that of A. cedrorum.

Nov. 10, 1902. — Flock of 100 or more at M. H. S.

Bullyragged by Myiadestes at M. H. S.

Louis saw a flock of several hundred at Bozeman, Montana, in November, 1902. He shot several.

When newly-fallen snow loads the cedars, flocks repeatedly fly out and re-align with great fluttering, repeating the performance as often as necessary to enable them to feed without suffering from annoying accumulation.

Hirundo erythrogastra Bodd.

Barn Swallow.

This species was observed at Mammoth
Hot Springs, late in July, 1889; but none
were seen in the Park during 1902.

Egialitis vocifera (Linn.)

Killdeer.

A common summer resident; breeds.

At Mammoth Hot Springs, I think I saw
them about Jupiter Terrace ~~the day~~ on April 19,
1902 (the day I arrived); and the species was
common from May to September. Last
noted, at Jupiter Terrace (altitude 6200 feet)
October 13, 1902.

July 31, 1889. — A pair at Jupiter Terrace, W. H. S.;
and several between Cinnabar and Livingstone.

Ardea herodias Linn.

Great Blue Heron.

One seen on a pool near Silver Gate,
the day we returned from a tour of the Park
(between Glen Creek and Silver Gate, Sept. 19, 1902).

July 29, 1889. - One at Hayden Valley.

July 31, 1889. - One near Cimmaron, Montana.

Numenius longirostris Wilson.

Long-billed Curlew.

A common visitant to the Park during July and August.

July 31, 1889. - Many large flocks were noted in the valley of the Yellowstone, near Livingston, Montana.

Rallus virginianus Linn.

• Virginia Rail.

In marshes of cat-tail and tuck, about
the M. H. S., a few bred, in 1902. (See
plant list for dates.) Altitude 6000 feet.

Fulica americana Gmelin.

American Coot: Mud Hen.

Flocks on Yellowstone Lake, Sept. 17, 18, 1902.
Breeds on ponds at head of Turkey Pen Trail,
near Black-tail Deer Creek, on Yancy road.

Last flocks noted Sept. 23, 1902.

Abundant; breeds.

Buteo borealis calurus (Cass.).

Western Red-tail.

On our trip through the Park, September 15-20, 1902,
a few were seen almost everywhere.

One in melanistic phase near Silver Gate,
Oct. 5, 1902.

Spermophile taken from miniature Red-tail
near 4-mile post, Swan Lake Flat, 1902.

One flushed from ground on a hillside near
Dunraven Pass, Sept. 24, 1902, left the ^{scanty} remains
of a bird behind.

Holt and I saw them on Red Mt. 1902.

One noted, on Gardiner River, Montana, Oct. 3, 1902.

Abundant from April to December. Breeds.

One was eating Cottontail Sept. 27, 1902.

Spermophile (no.

taken from one

One seen 5 miles east of Bozeman,
Montana, Oct. 9, 1902.

July 27, 1889. — Observed from Mtt. S. & L. G. Basin

Accipiter velox (Wilson).

Sharp-shinned Hawk.

One caught a young Dusky Grouse on
Black-tail Deer Creek, July 13, 1902.

One noted in Weldrum Gulch, U. H. S., Sept. 27, 1902.

Seen from April to September 24, 1902. Not
common. Probably breeds.

Accipiter cooperii (Bonap.).

Cooper Hawk.

Occasionally seen from May to September,
1902. Not common.

Accipiter atricapillus (Wilson).

American Goshawk.

Upper Geyser Basin, September, 1902.

Buteo ^{platypterus} ~~latissimus~~ (Vieill.).

Broad-winged Hawk.

One seen on Golden Gate road, at 6400 feet
altitude, 1902. It was sitting on a
pine-tree, ~~very~~ near the road, and did not fly
although we stopped ~~the~~ our team and examined it
closely.

Haliaeetus leucocephalus

There was a nest, for many years, on
Yellowstone Lake.

Louis saw a pair of adults July 13, 1902,
between Black-tail Deer Creek and the Yellow-
stone River.

Mr. George O. Haynes saw one on the
Madison River, near Riverside Station,
September 20, 1902.

Aquila chrysaetos (Linn.).

Golden Eagle.

One seen on East Gardner River the day
we drove Mrs. Baker there (see plant list for date).

Frequently seen in autumn, 1902.

Holt poisoned one at Red Mt.

Bubo virginianus pallescens Stone.

Western Horned Owl.

Resident from April to October, 1902.

Not common.

Junco sparrowis deserticola Mearns.

Desert Sparrow Hawk.

From Mammoth Hot Springs to the Mountain Hotel, several were seen 1902.

Abundant everywhere in the Park; breeds.

One seen 5 miles east of Bozeman, Mont.
Oct. 9, 1902.

July 31, 1889 -- "Several" were noted from M. H. S. to Casinabar.

Ceryle alcyon (Linn.).

Belted Kingfisher.

At Willow Creek, Gibbon River, Fire Hole River, and Yellowstone Lake 1902

One pair seen on the Main Gardiner River, May 2^d, 1902. One May 27, 1902 do

Common throughout June on the Gardiner River and its branches, also on the Yellowstone River below the mouth of the Gardiner River.

One seen at 2-mile bridge, Gardiner River, Montana, Oct. 3, 1902.

Resident from May to October 3, 1902; breeds. Gardiner River, Willow Creek, Gibbon River, Fire Hole River, Upper Geyser Basin.

It is safe to assume that the Kingfisher may be found wherever there are waters containing fish in the Park.

July 31, 1889. - One on the Yellowstone River, near Annabur, Montana.

Tyrannus verticalis Say.

Arkansas Kingbird.

Not seen in the Park, but ~~not~~
observed along the Yellowstone River;
near Livingston, Montana, July
31, 1889.

Poocetes gramineus confinis Baird.

Western Vesper Sparrow.

A common summer resident; breeds;
nested on Capital Hill, M. H. S., and on
Swan Lake Flat. May to Sept., 1902.

July 26-31, 1889. — "Common" at M. H. S.

Spizella socialis arizonae Coues.

Western Chipping Sparrow.

Young were out of nest and being fed by parents, July 7, 1902. At post Hospital.

Breeds commonly. May to Sept. Breeds in hospital yard on Douglas Spruce and limber pine trees.

July 26-31, 1889. — "Young still with parents at M. H. S.

July 28, 1889. — "Abundant" at the Upper Basin.

Spinus pinus (Wilson)

Pine Siskin; Pine Finch.

Young left nest in hospital yard July 11, 1902

Flock in Abies on summit of Beacon Peak, Oct. 5, 1902.

Flock in Meldrum Gulch, M. H. S., Sept. 27, 1902.

April 19 to Dec., 1902. Breeds. Summer resident. Many dead at Stygian Caves in Oct.

Aug. 1, 1902. - Two dead at the Stygian Caves.

Oct. 15, 1902. - Six dead " " "

July 26-31, 1889. - Drinking near M. H. S. Hotel.

Junco mearnsi Ridgway.
Pink-sided Junco.

Nest found June 3, 1902, in open grove,
under fallen trunk ^{hidden by grass}, contained 4 eggs.

Breeds abundantly, from 6000 feet upward.

Abundant April 24, 1902; singing. M. H. S.

" " " " at Lake Hotel.

" " " " at Lone Star Geopier.

Abundant everywhere from M. H. S. to summit of
Bunsen Peak, Oct. 5, 1902.

Abundant in Meldrum Gulch, M. H. S., Sept. 27, 1902.

Sept. 28, 1902. - First heavy flurry of snow at M.
H. S. Juncos numerous.

The common breeding form of Junco at
Swan Lake Flat; Jardine, Crevasse Mt., etc.

Many dead at Stygian Caves, Oct. 11, 1902.

Oct. 24, 1902. - Walked to Stygian Caves, but
saw no [living] Juncos.

Oct. 30, 1902. - M. H. S. No Juncos seen lately.

Aug. 1, 1902. - Four (all young of the season)
were found dead at the "Stygian Caves."

Nov. 10, 1902. - "No Juncos seen lately" at M. H. S.

Oct. 11, 1902. - Many dead at Stygian caves.

Oct. 15, 1902. - Thirty-five ^{do}

Oct. 17, 1902. - Scores of them at M. H. S.

Oct. 20, 1902. - Noted at M. H. S.

July 26-31, 1889. - "Scarce" at M. H. S.

July 27, 1889. - Noted from M. H. S. to Lower Geopier Basin.

July 28, 1889. - "Scarce" between the P. & M. Geopier basins,
and abundant at the Upper Geopier Basin.
(over)

Specimens.

12608. ♀ ad. Oct. 11, 1902. Hound dead at the
Stygian Caves, W. H. S., Oct. 11, 1902.
165; 250; 80; 74; 11; 21; 20 mm.

12609. ♂ ad. Ditto.

170; 263; 84; 77; 11.5; 21; 20.

12621. ♂ . Oct. 15, 1902. Stygian Caves, W. H. S.
166; 258; 83; 77; 10.8; 21; 21 mm.

12622. ♀ ad. Ditto.

165; 246; 80; 74; 11; ~~22~~; 21; 20.

12623. ♂. Ditto.

164; 258; 85; 74; 12; 21; 19.

12624. ♀ ~~♂~~ Ditto.

162; 245; 80; 76; 11; 21; 19.

Louis shot one at Crevasse Mt., Park Co.,
Montana.

Loxia curvirostra minor (Brehm).

Crossbill.

July 26-31, 1889. - Abundant and noisy about M. H. S.

July 27, 1889. - "Common" between M. H. S. & L. G. B.

July 28, 1889. - "Common, especially at the Upper Geyser Basin" and noted between the Upper and Lower basins also.
None were seen in the Park in 1902.

Empidonax wrightii Baird.?

Wright's Flycatcher.

Birds of this genus were seen, but the dates were not recorded or the species identified.

July 26-31, 1889. — "An Empidonax having a querulous twitter" was noted at M. H. S.

Possibly Empidonax traillii (Aud.).

Corvus corax sinuatus (Wagl.) *

American Raven.

Seen at the Lake Hotel

1902

" " " Lone Star Geysers.

" "

Two on Brunson Peak Oct. 5, 1902.

Several in Meldrum Gulch, M. H. S., Sept. 27, 1902.

Two dead from poisoned meat set out for Coyotes at ~~junction~~ lower part of East Gardiner River, 1902.

[Sept. 29, 1902. - Three in the road, probably drinking, at Trough (2-m. post). A tanner one at the M. H. S. Post Office began "talking like a parrot" yesterday - a bird of the year - Pipilo fuscica audsonica.]

Several seen on Gardiner R., Mont., Oct. 3, 1902.

Resident; breeds; commonly seen, but not numerous. M. H. S.; Gardiner City, Montana; Mt. Washburn; Brunson Peak; Yellowstone Lake; Grand Canyon; Yarey.

Noted at M. H. S.; Oct. 30,

Oct. 23, 1902. - Four seen across the Yellowstone.

July 26-31, 1889. - Common at M. H. S.

July 27, 1889. - Noted from M. H. S. to Lower Geysers Basin.

July 28, 1889. - Noted from L. G. B. to Up. Geys. Basin.

Lewis saw Ravens at Bozeman, in October and November, 1902.

* In 1902, I once or twice saw what appeared to be Corvus americanus, but the birds were too distant for accurate determination, as their notes were not heard.

Aechmophorus occidentalis

Western Grebe.

Seen on Beaver and Twin Lakes

1902.

Miscellaneous bird data from
the Park.

Many Ducks of Several Species on
Yellowstone Lake, 1902.

Several species of Gulls & Terns. Ditto.

Several large white birds supposed to be
Pelicans were seen in Yellowstone Lake
Geese breed in the Park.

First heavy snow, remaining on ground at
M. H. S., Nov. 17, 1902. Snowed again Nov. 18.

Up to that time gentians were flowering about
hot springs. On Sept. 28, a heavy fall of snow fell, but quickly melted.

Incorporate notes of our 1889 tour of the Park.

On Oct 17 + 18, 1902, Major Lou &
Geo. Pitcher shot 110 ducks on
Henry Lake, about 60 miles from
M. H. S. They said they got: -
Mallards, Green-winged Teal, Red-head,
Canvas-back, Baldpate, and Rutterballs.

July 27, 1889. - Several families of young
Ducks were noted between M. H. S. & G. G. Basin.

July 31, 1889. - "Many ducks near Livingston

Bismark, N.D., July 22, 1889.

Virginia Cascades. July 30.

Dickinson N.D. July 22.

Windsor N.D. " 22.

Wp. Geyser Basin " 28.

Ht. Custer " 24

M. H. S. " 26

Big Horn R. at Custer " 25

Divide bet. S. C. & Morris " 30

Wp. G. B. " 28

Manly Lake " 29

Big Timber Mont. " 26

Grand Canyon Yell. " 30

Inspiration Point " 29

Halls of Yellowstone " 30

Golden Gate " 27

Gibbon River " 27

Podilymbus podiceps (Linn.).

Pied-billed Grebe; Dabchick.

Seen in Beaver Lake

1902.

Pelecanus erythrorhynchos Gmel.

American White Pelican.

Several large white birds, supposed to be Pelicans,
were seen across an arm of Yellowstone Lake,
September, 1902.

Large numbers breed on an island
(perhaps several islands) in Yellowstone Lake.
Miss Jackson has a picture of the young.

Larus argentatus Brünn.

Herring Gull.

Yellowstone Lake, September and , 1902;
Yellowstone River, September , 1902.

Larus delawarensis Ord.

Ring-billed Gull.

Fire Hole River, August , 1902 (one).

Yellowstone Lake and River, September to , 1902.

Larus franklinii Sw. & Rich.

Franklin Gull.

Yellowstone Lake and River, September ^{to} 1902.

Sterna forsteri Nutt.

Forster Tern.

Yellowstone Lake and River, Sept. 10, 1902.

Olor _____

Swan.

Captain Elmer Lindsley, 1st Cavalry has a mounted Swan killed near the Park. We identified it, but I have forgotten which species it belonged to.

Swans are not uncommon in the Park.

"Swan Lake," a Park name.

Prof. Cooley preserved a Swan that had been shot in the mountains near Bozeman, Montana, in November 1902.

Branta canadensis (Linn.).

Canada Goose.

Breeds in suitable places
throughout the Park. I saw young
on Elk Flat and Beaver Lake, in 1902.

Flock at Beaver Lake, August, 1902.

Flock at Twin Lakes 1902.

Flock at Elk Park September 1902.

Flock on Yellowstone River, between Annabon
and Livingston, Montana, Oct. 7, 1902.

July 27, 1889. — "A family of young geese" was
noted at Beaver Lake.

Aythya vallisneria (Wilson).

Canvas-back.

Henry Jackson Lake (Majors Lou + Geo. Pitcher).
Flock of 5 on Yellowstone Lake 1902.

Large flock noted on Yellowstone River above
Gardiner City, Montana, Oct. 3, 1902.

Yellowstone Lake, near the Natural Bridge,
September, 1902. Flock.

The Majors' Pitcher shot some on Henry
Lake, Oct. 17 + 18, 1902. Four were sent to
my house from the lot.

Glaucionetta langula americana (Bonap.).

American Golden-eye.

Flocks in the Yellowstone River
Montana, during November and December,
1902.

Erismatura jamaicensis (Gmel.).

Ruddy Duck.

Major Lou. + Jack Pitcher use. Killed
some of them on Henry Lake in 1902.
The Majors Pitcher shot some of them
on Henry Lake, Oct. 17 + 18, 1902.

Dafila acuta (Linn.).

Pintail.

I saw some that had been shot
on Henry Lake.

Flocks on Swan and Beaver lakes, and
on small ponds about M. H. S., during last
half of September, 1902.

Aythya americana (Eyt.)

Henry Redhead.

Jackson Lake.

Yellowstone Lake and River, September
to , 1902. Flock on Yellowstone River at
Sphinx, Oct. 9, 1902.

The Majors Pitelner shot some on Henry Lake
Oct. 17 + 18, 1902.

Mareca americana (Gmel.).

Baldpate.

I saw some that had been
killed on Henry Lake in 1902.

Several flocks on Beaver Lake, Swan
Lake, and ponds in the vicinity of M. H. S.,
during the last half of September, 1902.

The Majors Pitcher killed some on Henry
Lake, Oct. 17 & 18, 1902.

Nettion carolinensis (Gmel.).

Green-winged Teal.

I saw some that had been killed on
Henry Lake in 18902.

Several flocks in ponds near Mam-
moth Hot Springs, Wyo., Oct. 5, 1902.

Flocks in ponds about Mammoth Hot
Springs during spring and fall.

The Majors Pitcher shot some on Henry
Lake, Oct. 17 + 18, 1902.

Chaulelasmus streperus (Linn.).

Gadwall.

I saw some from ~~Jack~~ Henry Lake
Mammoth Hot Springs (vicinity) throughout
September; also seen on Beaver and Twin lakes.

Anas boschas Linn.

Mallard.

The day Louis got a Solitaire near Gardiner
54 mallards were counted as we drove home along
the Gardiner - all paired. Date
Males have green heads through Nov. + Dec.

Many seen on Gardiner R., Dec. 16, 1903. all paired.

Seen on the Yellowstone Lake

1902,

Scores feeding in ponds about M.H.S., Oct. 5, 1902.

Gardiner and Yellowstone rivers, Oct. 3, 1902.

The most abundant Duck. A permanent
resident; breeds abundantly.

Several on the Yellowstone R. above the Gardi-
ner R., Oct. 13, 1902.

Noted at M.H.S.: Nov. 11,

Nov. 6, 1902. - Mallards in pairs along Gardiner River.

Oct. 16, 1902. - About 40 were feeding on a small
pond, near Glen Creek. When frightened, about
half flew, the others remaining and continuing to
feed. All soon returned and settled with loud
splashing.

The Majors Pitcher killed some on Henry
Lake, Oct. 17 + 18, 1902.

Oct. 23, 1902. - At the 2d bridge of the Gardiner
River, Montana, were a green-headed Mallard drake
with 3 females, each sleeping with head tucked away
under the feathers, on a separate stone of the
stream, close to the road.

Merganser americanus (Cassin).

American Merganser: Sheldrake.

April 19 to Dec. 16, 1902. Breeds.

Abundant on the Yellowstone River Oct. 3, 1902.

Abundant on all waters containing fish.

Many Mergansers seen on the Yellowstone River, at Sphinx, Montana, Oct. 9, 1902.

Many flocks on Yellowstone River between Laramie and Livingston, Montana, Oct. 7, 1902.

Oct. 18, 1902 - Abundant on the Yellowstone R.

Actitis macularia (L.) n. f.

Spotted Sandpiper.

One on Fire Hole River, 1902.
Yellowstone Lake and River (between Lake & Falls),
September; 1902. Breeds at M. H. S.;
also on Gardiner R. and Yellowstone R.

July 31, 1889. - One on the Gardiner R., Y. U. P., Montana.

July 27, 1889. - One on the Gibbon River.

July 31, 1889. - Common all along the Yellow-
stone River, from Cambridge to Livingston.